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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/864,749	05/24/2001	Billy G. Moon	062891.0567	1919
75	03/28/2005		EXAMINER	
Barton E. Showalter			BARQADLE, YASIN M	
Baker Botts L.I.				
2001 Ross Ave	nue, Suite 600		ART UNIT	PAPER NUMBER
Dallas, TX 75201-2980			2153	
			DATE MAILED: 03/28/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	-11-
09/864,749		MOON, BILLY G.	
Office Action Summary	Examiner	Art Unit	
	Yasin M Barqadle	2153	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence address	,
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a r reply within the statutory minimum of thirt riod will apply and will expire SIX (6) MON atute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication (35 U.S.C. § 133).	on.
Status			
1) Responsive to communication(s) filed on 2	1 October 2004.		
2a)⊠ This action is FINAL . 2b)□ 1	This action is non-final.		
3) Since this application is in condition for allo	•	•	is
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims			
4) ☐ Claim(s) <u>1-30</u> is/are pending in the applicate 4a) Of the above claim(s) <u>4,16,22 and 29</u> is 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>1-3,5-15,17-21,23-28 and 30</u> is/arr 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	/are withdrawn from considera	ation.	
Application Papers			
9)☐ The specification is objected to by the Exan	niner.		
10)☐ The drawing(s) filed on is/are: a)☐	accepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to			
Replacement drawing sheet(s) including the cor	,	•	(d).
11) The oath or declaration is objected to by the	e Examiner. Note the attached	Office Action or form P1O-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But * See the attached detailed Office action for a	nents have been received. nents have been received in A priority documents have been reau (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(s)		(DTD :::2)	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 		Summary (PTO-413) s)/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date		nformal Patent Application (PTO-152)	

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DETAILED ACTION

Response to Amendment

- 1. The amendment filed on October 06, 2004 has been fully considered but are not deemed to be persuasive.
- Claims 4,16,22 and 29 have been canceled.
- Claims 1-3,5-15,17-21,23-28 and 30 are presented for examination.

Response to Arguments

Applicant argues that Gifford fails the limitation ``receiving lease constraints associated with a request to use the distributed service, wherin the lease constraints include a percentage of the distributed service available and amount of resources required to execute the percentage of the distributed service..'' Examiner notes, that Gifford teaches client computers that derive from the routing tables the expected performance from the client's network to all of the networks specified in the received routing tables and records this information in a network performance table. The network performance table

includes an estimate of the performance from the client to the network number (e.g., an estimate of bandwidth) (col. 4, lines 38-65).

One way to estimate this performance is to take the round-trip performance observed from the replica router to the client and adjust for the round-trip performance from the replica router to the network router that matched (col. 9, lines 30-55).

Gifford also teaches service requests corresponding to the original user action at step 605 are sent in message 675 to a fixed number of the server replicas having the best performance metrics (Col. 9, line554 to col. 10, line 16). Therefore, Gifford clearly teaches this limitation. (col. 4, lines 38-65 and col. 9, lines 30-55).

Claim Rejections - 35 USC j 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6, 10-11, 14-25, 28-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Gifford (US Patent 6052718, entitled Replica Routing).

In the sited patent, Gifford discloses a method that takes a request from a user for distributed services on a replica, router, or a virtual machine set up to act as a replica server. The replica server handles requests based on both network location as well as current performance of the network, attempting to optimize network performance. The method also allows a user to select a series of criteria, or lease constraints, which will aid in the routing of the request to the ultimate replica server where the service will ultimately occur.

In regards to claim 1, Gifford discloses a method for providing a distributed service in a network, comprising:

• Executing a distributed service on a first virtual machine at a first router located on a first network (at the replica router, a first virtual machine is created that begins the execution of a distributed service, in this case web-based processing, col 7 lines 51-59).

Receiving lease constraints associated with a request to use the distributed service (lease constraints are attached to the request, in this case the IP address is included to constrain the system to provide service at a replica server Located close to the requesting client in the system, col 7 Line 57 - col 8 Line 10), receiving lease constraints associated with a request to use the distributed service, wherin the lease constraints include a percentage of the distributed service available and amount of resources required to execute the percentage of the distributed service (col. 4, lines 38-65 and col. 9, lines 30-55).

Determining to move the distributed service to a second virtual machine at a second router based on the lease constraints (once a suitable replica server, or second virtual machine is found based on the analysis of the IP address, the distributed service is moved by the replica router to the replica server by sending a redirect message to the client which in response automatically starts receiving the processed information, col 8 lines 30-62).

In regards to claim 2, Gifford discloses:

- Locating the second virtual machine at the second router (the replica router locates a second virtual machine at a second router location, col 8 lines 19-29).
- Allocating a processing resource on the second virtual machine to execute the distributed service (once the redirect message is sent to the user, the second virtual machine, Located at the replica server, allocates resources

to fulfilling the client's request, col 8 Line 53 - col 9 Line 5).

• Moving the distributed service from the first virtual machine to the second virtual machine (the client is automatically redirected to the second virtual machine by way of a redirection message sent from the first virtual machine at the replica router, col 8 lines 48-55).

In regards to claim 3, Gifford discloses determining to move the distributed service by the first virtual machine based on the lease constraints comprises:

- Analyzing traffic flow on the first network (the flow of messages between the first virtual machine and the second virtual machine are measured, the results which are used to determine network traffic performance, col 8 lines 30-38).
- Moving the distributed service to the second virtual machine on the second router to optimize the traffic flow on the first network (using the metric values of network performance, the first virtual machine can determine a second virtual machine to forward the request to which would optimize network traffic flow as well, col 8 lines 38-47).

In regards to claim 5, Gifford discloses:
The lease constraints comprise a required portion of the distributed service requested for use (the lease constraints in the given example include an IP address, a network performance metric, and a basic request for information, the request for information which carries a required portion of processing

resources needed for fulfilling the request, col 7 lines 51-59, col 8 lines 30-34).

Determining to move the distributed service by the first virtual machine based on the lease constraints comprises:

Measuring an available portion of the distributed service on the first virtual machine (performance is measured by the replica router to obtain a metric used to measure the current network performance between the replica router and the replica server, which in this instance is the distributed service (network connectivity and data transmission the client is requesting, col 8 lines 30-47).

Moving the distributed service to the second virtual machine on the second router if the required portion is greater than the available portion (the best available replica server is chosen and a message is sent to the client which redirects the client to the second virtual machine, one which has been checked for the minimum necessary performance levels, col 8 lines 42-58).

In regards to claim 6, Gifford discloses moving a portion of the distributed service to the second virtual machine at the second router based on the lease constraints (based on the IP address, or the necessary network performance, the replica router, or first virtual machine can forward the request to a second virtual machine, which in turn can further forward another portion of the request to another server, col 8 lines 20-47, col 8 Line 58 - col 9 Line 5). In regards to claim 10, Gifford discloses a method for providing a distributed service in a network, comprising:

Executing a distributed service on a first virtual machine at a first router Located on a first network (at the replica router, a

first virtual machine is created that begins the execution of a distributed service, in this case web-based processing, col 7 lines 51-59);

Receiving lease constraints associated with a request to use the distributed services, the lease constraints including a required portion of the distributed service requested for use (lease constraints are attached to the request, in this case the IP address is included to constrain the system to provide service at a replica server Located close to the requesting client in the system, col 7 line 57 -col 8 Line 10), receiving lease constraints associated with a request to use the distributed service, wherin the lease constraints include a percentage of the distributed service available and amount of resources required to execute the percentage of the distributed service (col. 4, lines 38-65 and col. 9, lines 30-55).

Measuring an available portion of the distributed service on the first virtual machine (performance is measured by the replica router to obtain a metric used to measure the current network performance between the replica router and the replica server, which in this instance is the distributed service (network connectivity and data transmission the client is requesting, col 8 lines 30-47),

Moving the distributed service to a second virtual machine on a second router if the required portion is greater than the available portion (once a suitable replica server, or second virtual machine is found based on the analysis of the IP address, the distributed service is moved by the replica router to the replica server by sending a redirect message to the client which in response automatically starts receiving the processed information, col 8 lines 30-62).

In regards to claim 11, Gifford discloses:

Copying the distributed service to create a duplicate distributed service (a set of redirection messages are created and sent to the client which create a duplicate service at a replica server site, col 8 lines 48-58).

Moving the duplicate distributed service to the second virtual machine at the second router (once a suitable replica server, or second virtual machine is found based on the analysis of the IP address, the distributed service is moved by the replica router to the replica server by sending a redirect message to the client which in response automatically starts receiving the processed information, col 8 lines 30-62).

Removing the distributed service from the first virtual machine when the lease constraints expire (once the IP address is used to determine a Location to move the service to, the service is ended at the first virtual machine at the replica router, col 8 lines 48-55).

In regards to claim 14, Gifford discloses a router, comprising:

A processor (the replica router can be stored locally on a computer, which contains a processor, col 3 lines 8-12).

A first virtual machine coupled to the processor, the virtual machine operable to:

Host a distributed service (at the replica router, a first virtual machine is created that begins the execution of a distributed service, in this case web-based processing, col 7 lines 51-59).

Receive lease constraints associated with a request to use the distributed service (lease constraints are attached to the request, in this case the IP address is included to constrain the system to provide service at a replica server Located close to the requesting client in the system, col 7 Line 57 -col 8 Line 10), receiving lease constraints associated with a request to use the distributed service, wherin the lease constraints include a percentage of the distributed service available and amount of resources required to execute the percentage of the distributed service (col. 4, lines 38-65 and Col. 9, lines 30-55);

Determine if the distributed service should be moved to a second virtual machine on a remote router based the lease constraints (once a suitable replica server, or second virtual machine is found based on the analysis of the IP address, the distributed service is moved by the replica router to the replica server by sending a redirect message to the client which in response automatically starts receiving the processed information, col 8 lines 30-62).

In regards to claim 15, Gifford discloses the first virtual machine is operable to:

Locate the second virtual machine on the remote router (the replica router locates a second virtual machine at a second router Location, col 8 lines 19-29).

Allocate a processing resource on the remote router to execute the distributed service on the second virtual machine (once the redirect message is sent to the user, the second virtual machine, located at the replica server, allocates resources to fulfilling the client's request, col 8 Line 53 - col 9 Line 5).

Move the distributed service from the first virtual machine to the second virtual machine (the client is automatically redirected to the second virtual machine by way of a redirection message sent from the first virtual machine at the replica router, col 8 lines 48-55).

In regards to claim 16, Gifford discloses:

The lease constraints include a minimum amount of processing resources required to execute the distributed service (the request can include a limit to the network processing resources available, and to the required limit needed to fulfill the request, which is monitored by the replica router by measuring current performance at the client, col 8 lines 30-34).

The first virtual machine is operable to:

Identify a portion of the processor available to execute the distributed service on the first virtual machine (a replica summary record is created which can include performance metric values that are evaluated against the requirements of the request, col 6 lines 20-32).

Move the distributed service to the second virtual machine on the remote router if the minimum amount of processing resources is greater than the identified portion of the processor (the best available replica server is chosen and a message is sent to the client which redirects the client to the second virtual machine, one which has been checked for the minimum necessary performance levels, col 8 lines 42-58).

In regards to claim 17, Gifford discloses:

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The lease constraints include a portion of the distributed service requested for use (the lease constraints in the given example include an IP address, a network performance metric, and a basic request for information, the request for information which carries a required portion of processing resources needed for fulfilling the request, col 7 lines 51-59, col 8 lines 30-34).

The first virtual machine is operable to:

Measure an available portion of the distributed service (performance is measured by the replica router to obtain a metric used to measure the current network performance between the replica router and the replica server, which in this instance is the distributed service (network connectivity and data transmission) the client is requesting, col 8 lines 30-47).

Move the distributed service to the second virtual machine on the remote router if the required portion is greater than the available portion (the best available replica server is chosen and a message is sent to the client which redirects the client to the second virtual machine, one which has been checked for the minimum necessary performance levels, col 8 lines 42-58).

In regards to claim 18, Gifford discloses the first virtual machine is operable to:

Analyze traffic flow on a first network (the flow of messages between the first virtual machine and the second virtual machine are measured, the results which are used to determine network traffic performance, col 8 lines 30-38).

Move the distributed service to the second virtual machine on the remote router to optimize the traffic flow on the first network

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(using the metric values of network performance, the first virtual machine can determine a second virtual machine to forward the request to which would optimize network traffic flow as well, col 8 lines 38-47).

In regards to claim 19, Gifford discloses the first virtual machine is operable to:

Copy the distributed service to create a duplicate distributed service (a set of redirection messages are created and sent to the client which create a duplicate service at a replica server site, col 8 lines 48-58).

Move the duplicate distributed service to the second virtual machine on the

Page 14 remote router (once a suitable replica server, or second virtual machine is found based on the analysis of the IP address, the distributed service is moved by the replica router to the replica server by sending a redirect message to the client\ which in response automatically starts receiving the processed information, col 8 lines 30-62).

Remove the distributed service when the lease constraints expire (once the IP address is used to determine a Location to move the service to, the service is ended at the first virtual machine at the replica router, col 8 lines 48-55).

In regards to claim 20, Gifford discloses logic encoded in media for providing a distributed service at a router within a network, the logic operable to perform the following steps:

Executing a distributed service on a first virtual machine at a first router Located on a first network (at the replica router, a first virtual machine is created that begins the execution of a

distributed service, in this case web-based processing, col 7 lines 51-59).

Receiving lease constraints associated with a request to use the distributed service (lease constraints are attached to the request, in this case the IP address is included to constrain the system to provide service at a replica server Located close to the requesting client in the system, col 7 Line 57 - col 8 Line 10), receiving lease constraints associated with a request to use the distributed service, wherin the lease constraints include a percentage of the distributed service available and amount of resources required to execute the percentage of the distributed service (col. 4, lines 38-65 and Col. 9, lines 30-55);

Determining to move the distributed service to a second virtual machine at a second router based on the lease constraints (once a suitable replica server, or second virtual machine is found based on the analysis of the IP address, the distributed service is moved by the replica router to the replica server by sending a redirect message to the client which in response automatically starts receiving the processed information, col 8 lines 30-62).

In regards to claim 21, Gifford discloses:

Locating the second virtual machine at the second router (the replica router locates a second virtual machine at a second router Location, col 8 lines 19-29).

Allocating a processing resource on the second virtual machine to execute the distributed service (once the redirect message is sent to the user, the second virtual machine, Located at the replica server, allocates resources to fulfilling the client's request, col 8 Line 53 - col 9 Line 5).

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Moving the distributed service from the first virtual machine to the second virtual machine (the client is automatically redirected to the second virtual machine by way of a redirection message sent from the first virtual machine at the replica router, col 8 lines 48-55).

In regards to claim 22, Gifford discloses:

The lease constraints comprise a required portion of the distributed service requested for use (the lease constraints in the given example include an IP address, a network performance metric, and a basic request for information, the request for information which carries a required portion of processing resources needed for fulfilling the request, col 7 lines 51-59, col 8 lines 30-34).

Determining to move the distributed service by the first virtual machine based on the lease contraints comprises:

Measuring an available portion of the distributed service on the first virtual machine (performance is measured by the replica router to obtain a metric used to measure the current network performance between the replica router and the replica server, which in this instance is the distributed service (network connectivity and data transmission the client is requesting, col 8 lines 30-47);

Moving the distributed service to the second virtual machine on the second router if the required portion is greater than the available portion (the best available replica server is chosen and a message is sent to the client which redirects the client to the second virtual machine, one which has been checked for the minimum necessary performance levels, col 8 lines 42-58).

In regards to claim 23, Gifford discloses determining to move the distributed service by the first virtual machine based on the lease constraints comprises:

Analyzing traffic flow on the first network (the flow of messages between the first virtual machine and the second virtual machine are measured, the results which are used to determine network traffic performance, col 8 lines 30-38);

Moving the distributed service to the second virtual machine on the second router to optimize the traffic flow on the first network (using the metric values of network performance, the first virtual machine can determine a second virtual machine to forward the request to which would optimize network traffic flow as well, col 8 lines 38-47).

In regards to claim 24, Gifford discloses:

Copying the distributed service to create a duplicate distributed service (a set of redirection messages are created and sent to the client which create a duplicate service at a replica server site, col 8 lines 48-58);

Moving the duplicate distributed service to the second virtual machine at the second router (once a suitable replica server, or second virtual machine is found based on the analysis of the IP address, the distributed service is moved by the replica router to the replica server by sending a redirect message to the client which in response automatically starts receiving the processed information, col 8 lines 30-62).

Removing the distributed service from the first virtual machine if the lease constraints expire (once the IP address is used to determine a Location to move the service to, the service is ended at the first virtual machine at the replica router, col 8 lines 48-55).

In regards to claim 25, Gifford discloses moving a portion of the distributed service to the second virtual machine at the second router based on the lease constraints. (based on the IP address, or the necessary network performance, the replica router, or first virtual machine can forward the request to a second virtual machine, which in turn can further forward another portion of the request to another server, col 8 lines 20-47, col 8 line 58 - col 9 Line 5).

In regards to claim 28, Gifford discloses an apparatus for providing a distributed

Service at a router within a network, comprising:

Means for executing a distributed service on a first virtual machine at a first router located on a first network (at the replica router, a first virtual machine is created that begins the execution of a distributed service, in this case web-based processing, col 7 lines 51-59);

Means for receiving lease constraints associated with a request to use the distributed service (lease constraints are attached to the request, in this case the IP address is included to constrain the system to provide service at a replica server Located close to the requesting client in the system, col 7 Line 57 - col 8 line 10), receiving lease constraints associated with a request to use the distributed service, wherin the lease constraints include a percentage of the distributed service available and amount of resources required to execute the percentage of the distributed service (col. 4, lines 38-65 and col. 9, lines 30-55).

Means for determining to move the distributed service to a second virtual machine at a second router based on the lease constraints (once a suitable replica server, or second virtual machine is found based on the analysis of the IP address, the distributed service is moved by the replica router to the replica server by sending a redirect message to the client which in response automatically starts receiving the processed information, col 8 lines 30-62).

In regards to claim 29, Gifford discloses:

The lease constraints comprise a required portion of the distributed service requested for use (the lease constraints in the given example include an IP address, a network performance metric, and a basic request for information, the request for information which carries a required portion of processing resources needed for fulfilling the request, col 7 lines 51-59, col 8 lines 30-34).

Determining to move the distributed service by the first virtual machine based on the lease contraints comprises:

Means for measuring an available portion of the distributed service on the first virtual machine (performance is measured by the replica router to obtain a metric used to measure the current network performance between the replica router and the replica server, which in this instance is the distributed service (network connectivity and data transmission) the client is requesting, col 8 lines 30-47).

Means for moving the distributed service to the second virtual machine on the second router if the required portion is greater than the available portion (the best available replica server is chosen and a message is sent to the client which redirects the

client to the second virtual machine, one which has been checked for the minimum necessary performance levels, col 8 lines 42-58).

In regards to claim 30, Gifford discloses means for moving a portion of the distributed service to the second virtual machine at the second router based on the lease constraints (based on the IP address, or the necessary network performance, the replica router, or first virtual machine can forward the request to a second virtual machine, which in turn can further forward another portion of the request to another server, col 8 lines 20-47, col 8 Line 58 - col 9 Line 5).

Claim Rejections - 35 USC f 1 03

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action'.

(a) A patent may not be obtained though the invention is not identically disclosed Or described as set found in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7-9, 12-13, 26-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gifford in view of Pitkin et al. (US Patent 5341477), hereinafter referred to as Pitkin.

In regards to claim 7, Gifford discloses the limitations of claim 1, however Gifford fails to disclose:

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Locating a service broker on the first network.

Requesting that the service broker locate the distributed service.

Pitkin discloses a system where a client can locate a service broker on a network, the broker being a apparatus which monitors the status of a set of servers, and responds to a clients request for distributed services by providing the client with a server that is best able to satisfy the clients service request (col 2 lines 36-41). As can be seen in this cited passage, Pitkin teaches both limitations of locating a service broker on the first network, and requesting that the service broker locate the distributed service. Pitkin teaches that utilizing a service broker can be beneficial as network resources are used more efficiently, as well as reduce computational overhead for the broker and communications overhead on the network (col 3 lines 25-27).

It would have been obvious to one of ordinary skill in the art at the time of invention to modify Gifford to include locating a service broker on the first network and requesting that the service broker locate the distributed service as taught by Pitkin to improve overall network functionality as network resources are used more efficiently, and computational overhead for the broker and communications overhead on the network are both lowered significantly.

In regards to claims 8 and 26, Gifford discloses:

Identifying a plurality of Locations for the distributed service on one or more networks (the replica router identifies all

servers or replica servers capable of handling the request, col 8 lines 19-52).

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Determining availability of the distributed service at each identified Location (each server in the replica routing table has its network performance measured and evaluated for determining an appropriate server for tie client to be redirected to, col 8 lines 30-47).

However Gifford fails to disclose:

Locating a service broker on the first network.

Requesting that the service broker locate the distributed service.

As can be seen from the discussion of claim 7, Pitkin discloses these two limitations as well as provided motivation for modifying Gifford to include the limitations.

In regards to claims 9, 12, and 27, Gifford discloses:

Determining a plurality of Locations of each of the distributed services on one or more networks (the replica router identifies all servers or replica servers capable of handling the request, col 8 lines 19-52).

Selecting the distributed services based on the lease constraints (each server in the replica routing table has its network performance measured and evaluated for determining an appropriate server for the client to be redirected to, col 8 lines 30-47).

Combining the selected distributed services to perform the desired function (a replica server as well as a master server can be combined to perform the desired function, col 8 Line 58 - col 9 Line 5).

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However Gifford fails to disclose:

Locating a service broker on the first network.

Asking the service broker to create a service path including a plurality of distributed services that perform a desired function.

As can be seen from the discussion of claim 7, Pitkin discloses these two limitations as well as provided motivation for modifying Gifford to include the limitations.

In regards to claim 13, Gifford discloses generating the lease constraints associated with the request to use the distributed service (lease constraints are attached to the request, in this case the IP address is included to constrain the system to provide service at a replica server Located close to the requesting client in the system, col 7 Line 57 - col 8 Line 10).

Conclusion

2. ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the

statutory period for reply expire later than SIX MONTHS from the date of this final action.

The prior made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yasin Barqadle whose telephone number is 703-305-5971. The examiner can normally be reached on 9:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Burgess can be reached on 703-305-4792. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and 703-746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Yasin Barqadle

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100